|           | Index of Claims |              |           |                |                    |                 |                |                |                    |                    |            |  |          | Application No. |               |           |                     |           |              |               |           |                |      | Applicant(s)      |            |   |          |            |              |                        |                 |                 |           |   |   |
|-----------|-----------------|--------------|-----------|----------------|--------------------|-----------------|----------------|----------------|--------------------|--------------------|------------|--|----------|-----------------|---------------|-----------|---------------------|-----------|--------------|---------------|-----------|----------------|------|-------------------|------------|---|----------|------------|--------------|------------------------|-----------------|-----------------|-----------|---|---|
|           |                 |              |           |                |                    |                 |                |                |                    |                    |            |  |          | 1               | 10/716,260    |           |                     |           |              |               |           |                |      |                   | RL         | ıs:   | SO,      | ۷ľ         | TΑ           | LIA                    | N(              | כ               |           |   |   |
|           |                 |              |           |                |                    |                 |                |                |                    |                    |            |  |          |                 | ٠.            |           |                     |           | ner          |               |           |                |      |                   |            | $\exists$   | Art      | Ur         | nit          |                        | <u>-</u>        | Ī               | -         |   | _ |
| •         |                 |              |           |                |                    |                 |                |                |                    |                    |            |  |          |                 | -             |           | Aic!                | ha.       | al F         | <b>)</b>      | Col       | ווהי           | الات |                   |            |   | 36       | 79         |              |                        |                 |                 |           |   |   |
|           |                 |              | _         |                | _                  |                 | _              | _              | _                  | _                  | <u> </u>   |  |          |                 |               | <u> </u>  | Michael P. Ferguson |           |              |               |           |                |      |                   |            | 1   | <u> </u> | <u>/ 5</u> |              |                        |                 | <u>.</u>        |           |   | _ |
|           |                 | Γ,           |           |                |                    | 7               | 1              | !              | Γ                  | T                  | (T         | hrou   | ıgh r    | nun             | ner           | ral)      | ,                   | 1         |              | Γ,            | •         | 51             |      | - 4               |            | П   |          | A ,,       |              |                        | $\neg$          | 1               |           |   |   |
|           |                 | √ Rejected – |           |                |                    |                 |                |                |                    |                    | _          | Ci   | ance     | lle             | d_            | _         |                     |           | N            | Ľ             | Non       | -Ei            | BC1  | 60                |            | A   |          | Ap         | pea          | 31                     |                 |                 |           |   |   |
|           |                 | =            | <b>\</b>  | llov           | we                 | .d              |                | !              | +                  |                    | Restricted |  |          |                 |               |           |                     |           |              | Γ,            | nte       | rfe            | ren  | CA                |            | 0   | _ (      | _<br>∩bi   | ect          | ed.                    | _               |                 |           |   |   |
|           |                 |              | L         |                |                    | لــّـ           |                | !              | Ŀ                  | $\perp$            |            |  |          |                 |               |           |                     | ļ         | Ù            | L             |           |                |      |                   |            | Ц   |          | <u> </u>   |              |                        |                 |                 |           |   |   |
| ۰۲۰       | Claim           | Т            |           |                |                    | Date            |                |                |                    | _                  | 1          | Claim  |          |                 |               | _         | <u> </u>            | Date      | e _          | _             | _         | $\neg$         | 1 [  | Cla               | aim        | _   |          |            | Date         | е                      |                 |                 | $\neg$    |   |   |
|           |                 | #0           |           | П              |                    | $\Box$          | $\Box$         | $\Box$         | Γ                  | Γ                  |            |  | [        | $\Box$          | Г             | Γ         |                     |           | П            | Γ             |           | $\Box$         |      |                   |            | П   | T        |            |              |                        | $\Box$          | П               |           |   |   |
| Final     | Original        | 1/4          | 19/05     | 1              |                    |                 |                |                |                    |                    |            | Final  | Original |                 |               |           |                     |           |              |               |           |                |      | Final             | Original   |   |          |            |              |                        |                 |                 |           |   |   |
| L         |                 | 片            | AT.       |                | $\perp$            | Ш               | Ш              | $\bigsqcup'$   | $oldsymbol{\perp}$ | $oldsymbol{\perp}$ | ]          |  |          |                 | L             | L         | <u> </u>            | Ļ         | Ш            | L             | $\perp$   | Ц              |      | $\dot{\parallel}$ | 1          | Ц   | 4        | $\perp$    | $\perp$      | $\bigsqcup$            | Ц               | Ц               | $\dashv$  |   |   |
| $\vdash$  | 1 2             | #            | 4         | H              | +                  | $\vdash$        | H              | $\vdash$       | $\vdash$           | +                  | 1          |  | 51<br>52 | $\vdash$        | $\vdash$      | $\vdash$  | +                   | $\vdash$  | $\vdash$     | $\vdash$      | $\vdash$  | H              | 1    |                   | 101<br>102 | H   | +        | +          | +            | $\vdash$               | Н               | $\vdash \vdash$ | $\dashv$  |   |   |
|           | 3               | 丌            | 巾         | 口              | 口                  |                 |                |                | 上                  | 上                  |            |  | 53       | $\Box$          | 匚             | 匚         | $\Box$              | 上         | $\Box$       |               | 口         | 口              |      |                   | 103        |   | #        | 土          | 土            | Ц                      | 口               | 口               | $\exists$ |   |   |
| -         | 5               | #            | #         | $\vdash$       | -                  | $\vdash$        | Н              | ┤┤             | ╀                  | ┼-                 | 1          | <u> </u>   | 55       | $\vdash$        | $\vdash$      | $\vdash$  | μ'                  | $\vdash$  | $\vdash$     | $\vdash$      | ┦         | H              | 1    |                   | 104<br>105 | +   | +        | +          | +            | $\vdash$               | Н               | H               | $\dashv$  |   |   |
|           | 6               | #            | 世         |                | J                  |                 |                |                | 世                  | 七                  | 1          |  | 56       |                 |               | 七         | 世                   |           |              |               |           |                |      |                   | 106        |   | 士        | t          | 七            | ╁                      | H               |                 | 一         |   |   |
|           | 7               | #            | #         | $\Box$         | $\widehat{\dashv}$ | $\square$       | $\Box$         | $\Box'$        | L                  | L                  | 1          |  | 57       | L               | $\Box$        | L         | L                   | L         | $\square$    | F             |           | $\Box$         |      |                   | 107        | $\Box$  | 7        | Ţ          | 丰            | П                      |                 | $\Box$          |           |   |   |
|           | 8               | ++           | t         | H              | $\dashv$           | 1               | 1              | Η.             | 一                  | +                  | 1          | <u> </u>   | 58<br>59 | ╁               | H             | H         | +                   | ╁         | H            | $\vdash$      | $\vdash$  | $\vdash$       |      |                   | 108<br>109 | $\vdash$  | +        | +          | +            | Н                      | H               | $\vdash$        | $\dashv$  |   |   |
|           | 10              | 4            |           | 口              | 口                  |                 | $\Box$         | $\Box$         | 二                  | 口                  | 1 !        |  | 60       | 口               |               | 二         | 口                   | $\Box$    | 口            | 匚             | $\Box$    | 口              | [    |                   | 110        | 口   | #        | 丰          | 丰            | 口                      |                 | П               | $\exists$ |   |   |
| $\vdash$  | 11              | #            | X         | -              | +                  | $\vdash$        | Н              | $\vdash$       | $\vdash$           | $\vdash$           | <b>∤</b> ! | <del>                                     </del> | 61<br>62 | ₩               | -             | $\vdash$  | +                   | $\vdash$  | H            | $\vdash$      | $\dashv$  | H              |      |                   | 111<br>112 | $\vdash$  | +        | +          | +            | $\vdash$               | H               | H               | $\dashv$  |   |   |
|           | 13              | 4            | ¥         | П              | $\exists$          | 口               | $\Box$         | $\Box$         | 上                  | 上                  |            |  | 63       | Ľ               |               |           | 口                   |           | 口            |               | 口         |                |      |                   | 113        | 口   | #        | 土          | 亡            | $\Box$                 | 口               |                 | $\exists$ |   |   |
| $\vdash$  | 14              | +            | $\vdash$  | H              | -                  | Н               | $\vdash$       | ┦┦             | -                  | $\vdash$           | ا إ        | <del></del>                                      | 64<br>65 | ₩               | -             | ├-        | 1                   | -         | H            | H             | $\vdash$  | Н              | 1 }  |                   | 114<br>115 | H   | +        | 7          | $\downarrow$ | Н                      | $\Box$          | $\vdash$        | $\exists$ |   |   |
|           | 16              | 上            |           |                | コ                  |                 | $\Box$         |                |                    |                    | ا [        |  | 66       | $\sqsubseteq$   |               |           |                     |           |              |               | $\Box$    |                |      |                   | 116        |   | 士        | 士          | 士            |                        |                 |                 | 廿         |   |   |
| <u> </u>  | 17              | $\Box$       | $\square$ | $\overline{H}$ | $\bar{\dashv}$     | $\ddot{\vdash}$ | $\dot{\sqcup}$ | $\square$      | F                  | $\vdash$           | ا إ        | <u> </u>   | 67<br>68 | $\square$       | $\square$     | F         | $\square$           | Ľ         | $\Box$       | Ĺ             | $\square$ | $\square$      |      |                   | 117<br>118 | $\Box$  | 7        | Ŧ          | L            | П                      | $\Box$          | $\Box$          | $\exists$ |   |   |
|           | 19              |              |           | H              | 寸                  | 一               |                | $\vdash$       | 上                  |                    |            | <del></del>                                      | 69       | 世               | $\vdash$      |           |                     | 世         | H            |               |           | H              | lt   |                   | 119        |   | 七        | 七          | +            | $\vdash$               | H               | 1               | $\dashv$  |   |   |
|           | 20              | 口            | 口         | $\Box$         | $\exists$          | $\Box$          | $\Box$         | $\Box$         | 口                  |                    |            |  | 70       | $\Box$          | $\Box$        |           | $\Box$              |           |              |               | $\Box$    | $\Box$         | 1 [  |                   | 120        | 耳   | 7        | 1          | 上            | П                      | $\Box$          | $\Box$          | $\exists$ |   |   |
| $\vdash$  | 21              | +            | Н         | $\dashv$       | +                  | $\vdash$        | Н              | H              | -                  | ₽                  | 1          | <del> </del> -                                   | 71<br>72 | H               | $\vdash$      | -         | ₩                   | -         | $\vdash$     | $\vdash$      | $\vdash$  | H              | 1 }  |                   | 121<br>122 | $\dashv$  | +        | +          | +            | $\vdash$               | $\vdash \vdash$ | $\dashv$        | $\dashv$  |   |   |
|           | 23              | 口            | 口         | 口              | 二                  | 口               |                |                |                    |                    | ]          |  | 73       |                 | 口             |           |                     |           | 口            |               | 口         |                | ļţ   |                   | 123        | 口   | 士        | 士          | 士            | ㅂ                      |                 |                 |           |   |   |
| $\vdash$  | 24              | +1           | $\vdash$  | +              | +                  | H               | $\vdash$       | H              | $\vdash$           | $\vdash$           |            | $\vdash\vdash$                                   | 74<br>75 | $\vdash$        | $\vdash$      | $\vdash$  | $\vdash$            | $\vdash$  | $\vdash$     | H             | $\vdash$  | Н              |      | $\dashv$          | 124<br>125 | $\vdash$  | +        | +          | 1            | H                      | H               | $\dashv$        | $\exists$ |   |   |
|           | 26              | $\Box$       | $\Box$    | $\Box$         | コ                  | 口               |                |                |                    | 世                  | ]          |  | 76       |                 |               | 口         | $\sqsubseteq$       | 世         |              |               |           | $\Box$         |      |                   | 126        | Image: Control of the | 士        | 士          | 士            |                        |                 |                 | $\exists$ |   |   |
| $\vdash$  | 27<br>28        | $\Box$       | $\square$ | $\dashv$       | $\dashv$           | $\overline{H}$  | H              |                | <u> </u>           |                    |            | $\square$  | 77<br>78 | $\square$       | $\square$     | <u> </u>  | $\Box$              | $\square$ | $\Box$       | Ē             | $\Box$    | $\bar{\vdash}$ |      |                   | 127<br>128 | H   | 7        | Ŧ          | $\downarrow$ | П                      | $\Box$          | $\Box$          | $\exists$ |   |   |
|           | 29              |              |           | d              | 寸                  | 丁               |                |                |                    |                    |            |  | 79       |                 |               |           |                     |           | 一            |               | Ӈ         |                | İţ   | 丁                 | 129        | $\top$  | 士        | 七          | +_           | $\vdash$               | H               | $\dashv$        | 一         |   |   |
|           | 30              | $\Box$       | $\Box$    | $\Box$         | $\exists$          |                 | $\Box$         |                | $\Box$             | $\Box$             |            |  | 80       |                 |               | $\Box$    |                     |           | $\Box$       | _             |           | $\Box$         | -    |                   | 130        | $\Box$  | 7        | 工          | $\perp$      |                        | П               | $\exists$       | $\exists$ |   |   |
| <b> -</b> | 31              | H            | $\vdash$  | $\dashv$       | +                  | -               | $\vdash$       | H              | -                  | <del>  -  </del>   |            | $\vdash$   | 81<br>82 | H               | H             | $\vdash$  |                     | $\vdash$  | H            | $\vdash$      | H         | $\dashv$       |      | -                 | 131<br>132 | +   | +        | ╀          | +-           | $\vdash$               | H               | $\dashv$        | $\dashv$  |   |   |
|           | 33              | 口            |           | 4              | コ                  | コ               | 口              |                |                    |                    |            |  | 83       |                 |               | ロ         | $\Box$              |           |              | $\Box$        | 口         |                |      | $\Box$            | 133        | $\exists$   | 土        | 士          | 士            |                        |                 | $\exists$       | コ         |   |   |
| <u> </u>  | 34<br>35        | $\vdash$     | H         | -+             | +                  | -               | H              | $\square$      | $\vdash$           | $\sqcup$           |            | $\vdash$   | 84<br>85 | $\square$       | $\vdash$      | $\square$ | $\square$           |           | $\mathbb{H}$ | <u> </u>      | $\Box$    | $\dashv$       |      | _                 | 134<br>135 | $\dashv$  | 7        | 1          | igspace      | $\Box$                 | $\exists$       | 7               | 7         |   |   |
|           | 36              |              |           | #              | $\exists$          | 寸               | 一              |                | 世                  | $\vdash$           |            |  | 86       | $\bigcup$       |               |           |                     |           |              |               | H         |                |      |                   | 136        | 1   | 十        | 十          | ╁            | $\vdash$               |                 | 1               | $\dashv$  |   |   |
|           | 37<br>38        | $\Box$       | $\Box$    | $\dashv$       | 4                  | $\Box$          | $\Box$         |                |                    |                    |            |  | 87       |                 |               |           | 口                   | $\Box$    | $\Box$       | $\sqsubseteq$ | $\Box$    | $\Box$         | -    |                   | 137        | 7   | 丁        | 丰          | $\Box$       | $\Box$                 | П               | $\exists$       | 7         |   |   |
| $\vdash$  | 39              | H            | H         | 1              | 1                  | 寸               |                |                | -                  | Н                  | 1          | $\square$  | 88<br>89 | $\vdash$        | -             |           | H                   | $\vdash$  | H            | $\vdash$      | $\vdash$  | $\dashv$       |      |                   | 138<br>139 | +   | +        | +          | +-           | $\vdash$               | +               | $\dashv$        | $\dashv$  |   |   |
|           | 40              | 口            | $\Box$    | 7              | 7                  | 二               | $\Box$         | $\Box$         | $\Box$             |                    | 1          |  | 90       | 口               |               |           | 口                   |           | $\Box$       | 二             | 口         | $\Box$         |      | $\Box$            | 140        | 7   | 丰        | 丰          | 口            | 口                      | $\Box$          | コ               | コ         | • |   |
| $\vdash$  | 41              | H            | H         | +              | +                  | +               | 7              | H              | $\vdash\vdash$     | H                  |            | <del>     </del>                                 | 91       |                 | $\vdash$      | $\vdash$  | $\vdash$            | H         | H            | _             |           | -              | ;    | -                 | 141        | +   | +        | +          | H            | $\left  \cdot \right $ |                 | $\overline{+}$  | $\dashv$  |   |   |
|           | 43              | 口            | П         | 7              | 7                  | 耳               | 二              | $\Box$         |                    |                    |            |  | 93       | 口               |               |           |                     |           | $\Box$       |               | 口         |                |      |                   | 143        | コ   | 土        | 土          | $\Box$       | 口                      | $\exists$       | $\exists$       | $\exists$ |   |   |
| $\vdash$  | 44              | H            | H         | +              | +                  | +               | +              | $\vdash$       | $\vdash$           | $\vdash$           |            | $\dashv$   | 94       | H               | <del>  </del> | Н         | $\vdash$            | H         | -            | _             | $\vdash$  | $\dashv$       |      | -                 | 144        | +   | +        | +          | H            | H                      | +               | +               | $\dashv$  |   |   |
|           | 46              |              |           | 士              | #                  | 士               | コ              |                |                    | 口                  | 1          |  | 96       |                 |               |           |                     |           |              | _             | H         | 丁              | t    | 丁                 | 146        | 士   | 士        | +          | H            | $\vdash$               | 1               | 1               | $\dashv$  |   |   |
| <u></u>   | 47<br>48        | H            | $\dashv$  | $\dashv$       | $\dashv$           | $\bar{+}$       | $\exists$      | $\vec{\vdash}$ | $\tilde{\vdash}$   | $\square$          | 1          |  | 97<br>98 | $\Box$          | $\exists$     | $\square$ | $\Box$              | $\exists$ | $\dashv$     | _             | $\Box$    | $\exists$      | -    |                   | 147        | $\Box$  | 7        | 二          | $\Box$       |                        | $\exists$       | 丁               | $\Box$    |   |   |
|           | 49              | 一            | 寸         | 士              | 1                  | 十               | 寸              | 寸              |                    | H                  | ,          |  | 99       | H               | 1             |           | H                   |           | 1            |               | H         | -              | <br> |                   | 148        | +   | +        | +          | ╂┤           |                        | +               | +               | $\dashv$  |   |   |
|           | 50              |              |           | 工              | I                  | 二               | $\Box$         | $\Box$         |                    |                    | [          |  | 100      |                 | $\Box$        |           |                     |           | 二            | _             |           | $\Box$         | t    |                   | 150        | 工   | 土        | 上          | 口            |                        | 二               | ユ               | J         |   |   |
|           |                 |              |           |                |                    |                 |                |                |                    |                    |            |  |          |                 |               |           |                     |           |              |               |           | _              |      |                   |            |   | _        |            |              |                        |                 |                 | _         |   |   |